

司南微电子（深圳）有限公司

SINAWELL Electronics(Shenzhen) Co., Ltd.

Customer Name	Shenzhen cannice Technology Co., Ltd
Product Name	A1355-L
Customer Item Number	
Project name	A1355-L
Product brand	
Product model	

Appendix	☒ cover	☒ buleprint	☐ FAI report	☐ CPK report告
	☒ Reliability Test Report	☐ 3D model	☒ RoHS	☐ UN38.3

Supplier	Make	Audit	Approval
Signature	Chen de	Li xiao long	Zhang ping

Customer	Make	Audit	Approval
Signature			

Admit condition	☐ admit	☐ Denial of recognition
	☐ Conditional recognition	Conditions to be satisfied:
	☐ Provisional recognition	limit__PCS

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Rev: B

The Main Antenna Sample Confirmation

Customer	Shenzhen CANNICE Technology Co., Ltd.		
Project Name	A1355-L		Date2024-07-23
Project NO.		Notes	FPC
Frequency Range	BT		
Designed By	RF Engineer	Structural Engineer	
Checked By	Engineering Manager		
Client' s Approval			

Designer: SINAWELL Electronics(Shenzhen) Co., Ltd.

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Table of Contents

1. Specification description.....	1、 2
1. Summary of specifications	3
2. Appearance	3
3. Electrical performance.....	3
3.1. Antenna band.....	3
3.2. Matching circuit.....	3
3.3. Return Loss.....	3
3.4. Antenna Gain.....	5
4. Appearance structure.....	5
4.1. Antenna Material.....	5
5. Remarks	5
Appendix I (Mechanical drawing).....	6
Appendix II (Performance Report)	7-10

1. Specification description

This specification describes the status of the A1355-L internal antenna with a frequency band of 2400MHz-2500MHz.

2. Antenna appearance

3. Electrical performance

3.1. Antenna band

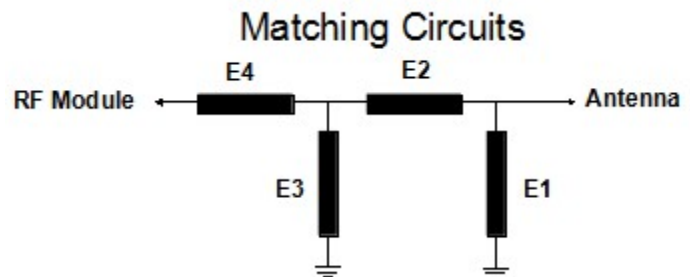
	BT
Transmitting band(MHz)	2400MHz-2500MHz

3.2. Matching Circuit

After the test point is at the antenna connector (RF test port), see the figure below.

1. BT antenna matching.

Element	Value
E1(0402)	NC
E2(0402)	0 Ω
E3(0402)	NC
E4(0402)	0 Ω



3.3. Return Loss

BT VSWR+ Return

	Resonant Point Range(MHz)	Frequency point(MHz)/Maximum Echo Loss(dB)		
	2400-2500		2400	2500
		VSWR	1.46	1.52
		Return loss	-14.6	-13.7

3.4. Antenna Gain

Freq	Effi	Effi	Gain
(MHz)	(%)	(dB)	(dBi)
2400	15.15	-8.2	-1.19
2410	18.49	-7.33	-0.43
2420	19.9	-7.01	-0.24
2430	22.03	-6.57	0.14
2440	24.29	-6.15	0.54
2450	25.78	-5.89	0.78
2460	26.98	-5.69	0.95
2470	26.23	-5.81	0.89
2480	26.97	-5.69	0.99
2490	25.56	-5.92	0.81
2500	25.11	-6	0.92

4. Appearance structure

4.1. Antenna Material

5. Notes

(Electrical Performance Test Report)

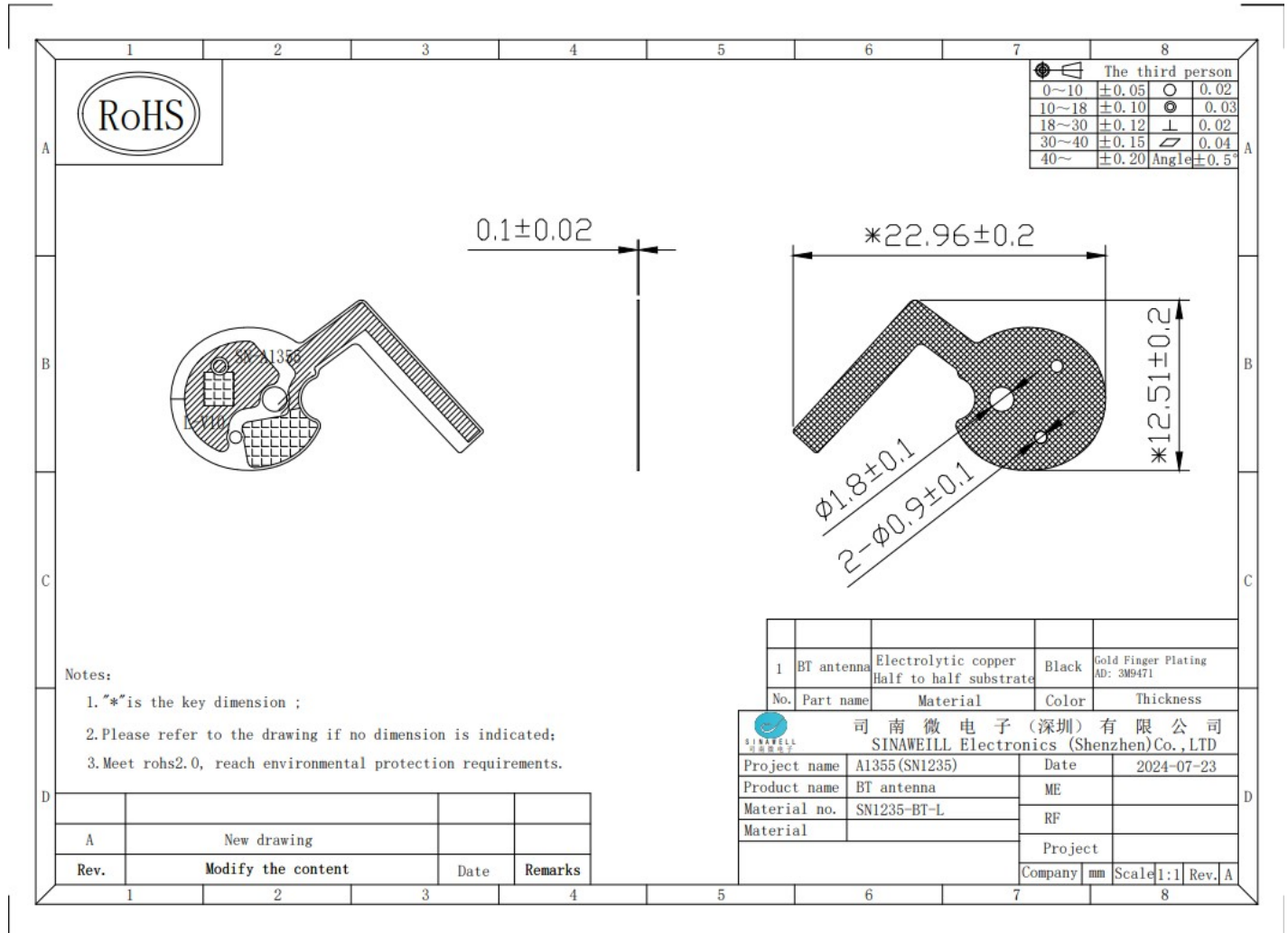
In the electrical performance test report, the 3D darkroom data for manufacturers are provided.

The following table format

Appendix 1: (Mechanical drawing)

Appendix II (Performance report)

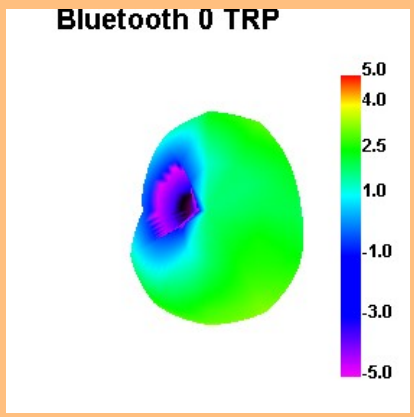
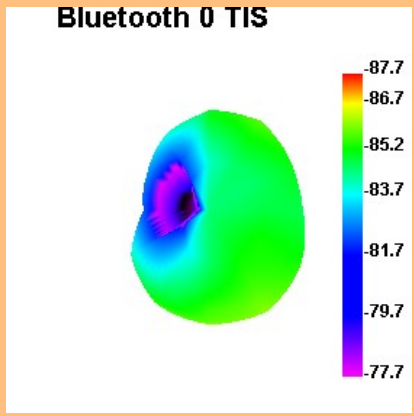
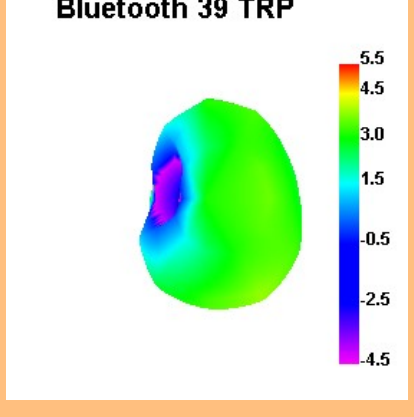
FPC Mechanical drawing(Annex I)

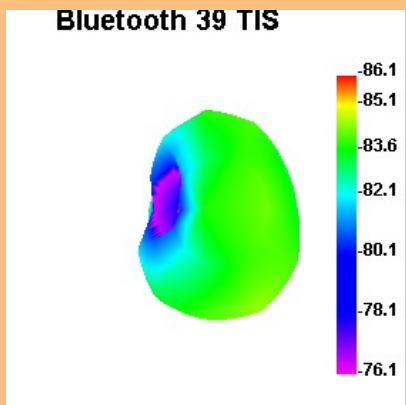
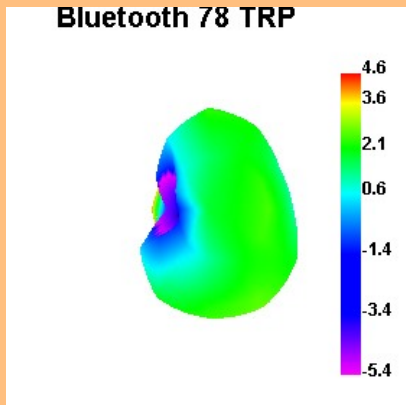
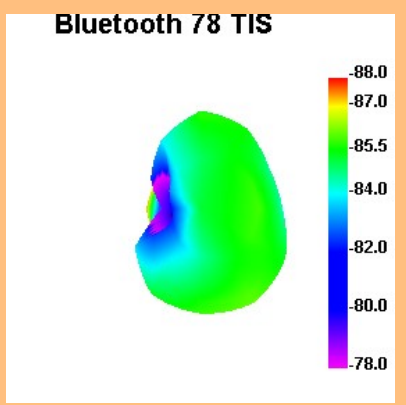


Focus on size

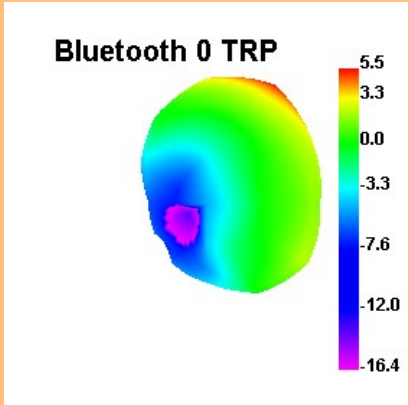
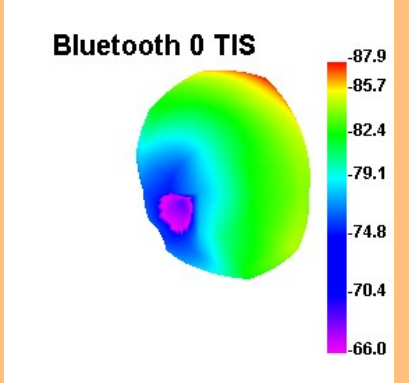
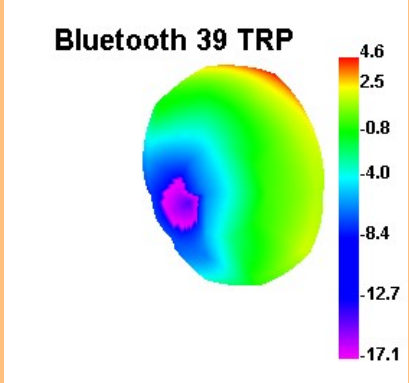
NO	Size(mm)	Tolerance(mm)	Notes
1	22.96	±0.2	
2	12.51	±0.2	
3			
4			
5			
6			

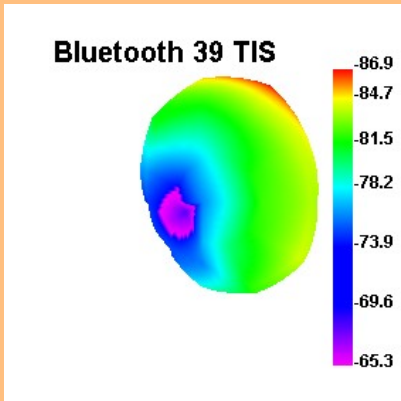
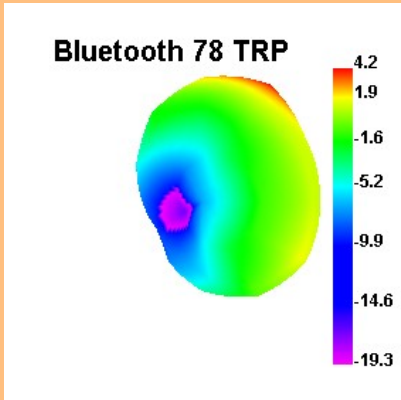
3DTest Report (FS)

BT	Channel	3DCoupling Test	Field strength map
TRP	0	1.78	Bluetooth 0 TRP 
TIS	0	-84.54	Bluetooth 0 TIS 
TRP	39	1.79	Bluetooth 39 TRP 

TIS	39	-84.39	Bluetooth 39 TIS 
TRP	78	0.39	Bluetooth 78 TRP 
TIS	78	-83.8	Bluetooth 78 TIS 

3DTest Report (BH)

BT	Channel	3DCoupling Test	Field strength map
TRP	0	-0.56	 Bluetooth 0 TRP Color scale: 5.5, 3.3, 0.0, -3.3, -7.6, -12.0, -16.4
TIS	0	-81.82	 Bluetooth 0 TIS Color scale: -87.9, -85.7, -82.4, -79.1, -74.8, -70.4, -66.0
TRP	39	-1.2	 Bluetooth 39 TRP Color scale: 4.6, 2.5, -0.8, -4.0, -8.4, -12.7, -17.1

TIS	39	-81.03	Bluetooth 39 TIS 
TRP	78	-1.72	Bluetooth 78 TRP 
TIS	78	-82.95	Bluetooth 78 TIS 